

Borealis Borcell™ HE4873 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Borcell™ HE4873 is a fully formulated compound for physical foamed data cable insulation. Borcell™ HE4873 is a high-density polyethylene compound containing blowing agent for the production of foam or foam-skin insulation. Applications: Borcell™ HE4873 is designed to use as physically foamed insulation for data cables. Borcell™ HE4873 meets the following material classification: ISO 1872-PE, KEGHN, 45-D045, and ASTM D1248 Type III, Class A, Category 3, Grade E1, E3. The following cable material standards are met by Borcell™ HE4873: EN 50290-2-23. Cables manufactured with Borcell™ HE4873 using sound extrusion practice normally comply with the following cable product standards: IEC 61156 and EN 50288. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcell-HE4873-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in ³	ISO 1872-2/ISO 1183
Melt Flow	3.8 g/10 min @Load 5.00 kg, Temperature 140 °C	3.8 g/10 min @Load 11.0 lb, Temperature 284 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	1 second; ISO 868
Tensile Strength at Break	23.0 MPa	3340 psi	ISO 527
Elongation at Break	600 %	600 %	ISO 527

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-76.0 °C	-105 °F	ASTM D746

Processing Properties	Metric	English	Comments
Zone 1	160 °C	320 °F	
Zone 2	170 °C	338 °F	
Zone 3	215 °C	419 °F	
Zone 4	205 °C	401 °F	
Zone 5	210 °C	410 °F	
Die Temperature	220 °C	428 °F	
Head Temperature	220 °C	428 °F	

Processing Properties	Metric	English	Comments
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